



OIBE

RAW SEQUENCE LISTING

DATE: 02/19/2002

PATENT APPLICATION: US/09/964,824A

TIME: 14:33:23

Input Set : N:\EBONY'S\thyroid.txt

Output Set: N:\CRF3\02192002\I964824A.raw

4 <110> APPLICANT: Horrigan, Stephen
 6 <120> TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using
 Signature Gene

7 Sets

9 <130> FILE REFERENCE: 689290-73

11 <140> CURRENT APPLICATION NUMBER: US/09/964,824A

11 <141> CURRENT FILING DATE: 2001-09-27

11 <150> PRIOR APPLICATION NUMBER: US/60/236,033

12 <151> PRIOR FILING DATE: 2000-09-28

14 <150> PRIOR APPLICATION NUMBER: US/60/236,032

15 <151> PRIOR FILING DATE: 2000-09-28

17 <150> PRIOR APPLICATION NUMBER: US/60/236,028

18 <151> PRIOR FILING DATE: 2000-09-28

20 <160> NUMBER OF SEQ ID NOS: 583

22 <170> SOFTWARE: PatentIn version 3.0

24 <210> SEQ ID NO: 1

25 <211> LENGTH: 521

26 <212> TYPE: DNA

27 <213> ORGANISM: Homo sapiens

29 <220> FEATURE:

30 <221> NAME/KEY: misc_feature

32 <222> LOCATION: (1)...(521)

34 <223> OTHER INFORMATION: n=a,t,g or c

37 <400> SEQUENCE: 1

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40 ggaacagtag acttctattg tcttcaatcc ctaatgtcct agtgagtatg taccctatgg 120

42 agaaggcaga aatgacgtgg accaggactc cttacatgga gagtgtttta aaggcagttt 180

44 ttaaaaagcc cattttgtga aagaaaccag aaggctcgta attgctgtct gcactgtggt 240

W-> 46 ttctcctggg ggttggggag gggagtggat taaataaaaa gtttagaagg ccatagnata 300

48 aatatcgaaa tagtatgaat tttaatatat acttttaaag gggttaggca atgatgaaaa 360

50 gatatgactg ctttcttttc atttctcatt aaattaaaaat tcccacaaaa gtgcatggca 420

52 tctttttgaa acactgctaa ttttaaagtt tggaagggtt tatcttcata gccacaatct 480

W-> 54 ttgcnaaagc cttgggtaccg gnaacaaggc tccagtctgc c 521

57 <210> SEQ ID NO: 2

58 <211> LENGTH: 481

59 <212> TYPE: DNA

60 <213> ORGANISM: Homo sapiens

62 <400> SEQUENCE: 2

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65 aaagttcatg aatgaaataa aaaagacact ctcaaaatat taaaacctat ggaaagaaaa 120

67 taagtaatta atgaatgatg tttttgtttc caaatacaat gaagtgattt tttattagag 180

69 tccttgggaa tcatctaagt tacaatacag aagagaatta aataaatcgt atatgatttt 240

71 gtaattagac actctatata tcacagttct ttgttaacct gggcatggaa cgtccctata 300

73 gcatatatatt aaaaccatta atttttttta aaaaaatttg agacatgggt tggtcttgggt 360

PS
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75 ctctaaatta tgtttcccca ttcccttga atgttctcta ttggccatct tctggaacat 420
77 taaaaaaaaa tcttgaaaca aattctcttg caatgatacg tatcacataa acttgatatg 480
79 c 481
82 <210> SEQ ID NO: 3
83 <211> LENGTH: 357
84 <212> TYPE: DNA
85 <213> ORGANISM: Homo sapiens
87 <400> SEQUENCE: 3
88 gagcgggtgga gggcgctact gggtttcggc gtctggcaag cgattcagct gtctgtctccc 60
90 tagcagccgg ccttcgggtc gggcgctctc cccggctact gccgcttcag ttcttcgggt 120
92 gtggccacga gtcgggtgc acttctgtga tccatcctca tcttctaaag atgcacctcg 180
94 acttatctcc acactgcac actgaagaat gcaacgtctt gattaacttg ctttaaggaaat 240
96 gtcacaaaaa tcacaacatt ctgaaatttt ttgggtattg taatgatggt gatcgggggt 300
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101 <210> SEQ ID NO: 4
102 <211> LENGTH: 1086
103 <212> TYPE: DNA
104 <213> ORGANISM: Homo sapiens
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109 ggtgaggagg cgccaccagg cgtgcggtcc gtoaagggtg tcttggtggg cgacggcgcc 120
111 tgcgggaaga cgtcgtgct gatggtcttc gccgatgggg ccttccccga gagctacacc 180
113 cccacgggtg ttgagcggta catggccaac ctgcaagtga aaggcaaacc tgtgcacctc 240
115 cacatctggg acacagcagg gcaagatgac tatgaccgcc tgcggccctt gttctaccct 300
117 gacgccagcg tctgctgct ttgcttcgat gtcaccagcc cgaacagctt tgacaacatc 360
119 tttaaccggg ggtaccaga agtgaatcat ttctgcaaga aggtacccat catcgctctg 420
121 ggctgcaaga ctgacctgcg caaggacaaa tcaactggtg acaagctccg aagaaacgga 480
123 ttggagcctg tgacctacca cagggggccag gagatggcga ggtccgtggg cgcggtggcc 540
125 tacctcgagt gtcggtctcg gctccatgac aacgtccacg ccgtcttcca ggaggccgcc 600
127 gaggtggccc tcagcagccg cggctgcaac ttctggcgcc ggattacca gggcttttgc 660
129 gtggtgacct gagcggctcg gggcgctcca gcgacgcggg aaggggcagg gcgctgacct 720
131 gctgctgagc tggtggtggt ggaccgggtc cctaggtgtg gaccgccgaa ctccactgca 780
133 acagacgggc gccaccaaag ccaggccctg aggcctggga gtcttgact gagaaagggg 840
135 gttcctgggc ccacctgctc tgtgtagggc tcgtcctgcg gtgcccgaga atcactcgct 900
137 aaccctatg cccggtcccg gaccgacatc ctggagccgc ctgtgcagcc tgatgcccc 960
139 tcgtggctgc tcccagggt gcacctgcca ggacctaatg ttcttaggtc cctctggcca 1020
141 gaaccacac ccggccctt cccacctgtc atactggtaa ctgtaacaag aaaaacgaca 1080
143 tcactt 1086
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147 <211> LENGTH: 486
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149 <213> ORGANISM: Homo sapiens
151 <220> FEATURE:
152 <221> NAME/KEY: misc_feature
153 <222> LOCATION: (1)...(486)
155 <223> OTHER INFORMATION: n=a,t,g or c
158 <400> SEQUENCE: 5
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w-9

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163 ccggctagat gactgtcaga tgtacctggc acacgagcag gcgccccgaa gcgccaccgc 180
 165 ttcactcactg agaaggcggg cttctcccg c tgggccaaga agaggcccat cgtgttcgcc 240
 167 catccgtcct ggaggactga gtagcttcg tegtctgcc agccgccatg ccgttgcgag 300
 169 gcctccggga tgtcccatcc caagccatca cactccacaa aaacatttaa tttatgggat 360
 171 cctgctcct gccacgtgct ggggtggganc ttaaggttcc tccccacccc attgtgggcg 420
 173 acatttggag ccattttcag gcttccattc cctgagtaat tcatgggcat tttgggggtt 480
 175 cancca 486
 178 <210> SEQ ID NO: 6
 179 <211> LENGTH: 1515
 180 <212> TYPE: DNA
 181 <213> ORGANISM: Homo sapiens
 183 <400> SEQUENCE: 6
 184 tttttttttt ttttcatcag gtcagagcca aaggaaagct tgaaaaatga agacattagc 60
 186 aggacttggt ctgggacttg tcatcttgga tgctgctgtg actgccccaa ctctagagtc 120
 188 catcaactat gactcagaaa cctatgatgc caccttagaa gacctggata atttgtacaa 180
 190 ctatgaaaac atacctgttg ataaagttag gattgaaata gccacagtaa tgccttcagg 240
 192 gaacagagag ctccctcactc cccccccaca gcttgagaag gcccaggaag aggaagagga 300
 194 ggaggaatct actcccaggc tgattgatgg ctcttctccc caggagcctg aattcacagg 360
 196 ggttctgggg ccacacacaa atgaagactt tccaacctgt ctttgggtga cttgtataag 420
 198 taccaccgtg tactgtgatg accatgaact tgatgctatt cctccgctgc caaagaacac 480
 200 cgcttatttc tattcccgct ttaacagaat taaaaagatc aacaaaaatg actttgcaag 540
 202 cctaagtgat ttaaaaagga ttgatctgac atcaaattta atatctgaga ttgatgaaga 600
 204 tgcattccga aaactgcctc aacttcgaga gcttgctctg cgtgacaaca aaataaggca 660
 206 gctcccagaa ttgccaaacca cttcgacatt tattgatatt agcaacaata gacttggaag 720
 208 gaaagggata aagcaagaag cttttaaaga catgtatgat ctccatcatc tgtacctcac 780
 210 tgataacaac ttggaccaca tccctctgcc actcccagaa aatctacgag cccttcacct 840
 212 ccagaataac aacattctgg aaatgcacga agatacgttc tgcaatggta aaaatttgac 900
 214 ttatatcgt aaggcactag aggacattcg attggatgga aaccctatta atctcagcaa 960
 216 aactccacaa gcatacatgt gtctacctog tctgcctgtt gggagccttg tctaatttca 1020
 218 gataatgggt agcattacga tggctactat aaataaacca ttcttactgc tctcttccaa 1080
 220 aacaaaactc agcatgatac tttgagattg tgttctgaga gatgatatga ctacataaaa 1140
 222 tacaattaaa aatgtttataa tataatgaaa atgtagtaat ttaagaaaac accagatgag 1200
 224 ttaggaataa acctataaca tttaaaaaa gagcaaaact aagtgataga aaatatttca 1260
 226 cacatgttct tatagatcat gtatcacttg caagttttag gagttcatat cctatatcat 1320
 228 ttcaaattaa gtacataata aagtaaaatt ttgaaatgaa cactttaggt atttttgcca 1380
 230 agatttagat gtttttaatt aaacttttct ctcccttttt ttttactaa ggcatgttta 1440
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 238 <211> LENGTH: 480
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 243 <221> NAME/KEY: misc_feature
 245 <222> LOCATION: (1)...(480)
 247 <223> OTHER INFORMATION: n=a,t,g or c
 250 <400> SEQUENCE: 7
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 253 agcatgccct acggagatct ggattcttat acactaagat gtgtcttaag aatcacagt 120

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255 cgtgcttcat ccctttattg aagaacagaa aattatgact actctacaag gtggataata 180
 257 ttttggtacc tgtggctggc cacagccctg ttcctcaaag ctgaattgat agatttctct 240
 259 ttgacttcca agacctagca gttataaggc accttgaaat aaattgtttg tgcctggaaa 300
 261 **W--> tgcagggagg gcaatagctt tgtaaattgg nttacatttt tctccttgaa ttttctagg 360**
 263 gtcctagtgc ttccgaatca tttaatggca ttgtcggata tccctttaca tttcaattgc 420
 265 aatccatgaa attacattta gaagattctt agtacttaac ggtagtcttc ccatgaattt 480

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269 <211> LENGTH: 416

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271 <213> ORGANISM: Homo sapiens

273 <220> FEATURE:

274 <221> NAME/KEY: misc_feature

276 <222> LOCATION: (1)...(416)

277 <223> OTHER INFORMATION: n=a,t,g or c

280 <400> SEQUENCE: 8

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 283 acattttaaa gtatataatt tgcattttcc accttctcaa tgccaatgaa atattctagg 120
 285 agactctata agataacca ttgattttct actactccca aatttttaact ttgtaattta 180
 287 aagaggaata ggcaaataga gctgctgtgg ttctggttct cctgacagga tgaagggggc 240
 289 ctgcaaatg tctcctactt ccattctagg tcattcagca aggtgccttc ctctggatgc 300
 291 actgtctgta tacttttgcc atgttgcatc acataatgga ttctggccca ccttacacca 360
W--> 293 ttttgactgt cagtaaaaga atgggtatggg ggcccatttc ttcntttatt aatagc 416

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297 <211> LENGTH: 371

298 <212> TYPE: DNA

299 <213> ORGANISM: Homo sapiens

301 <400> SEQUENCE: 9

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 304 agccactact gaggaggagg gtcccatctc tctcctgtcg gctttcaccg aggtcacagc 120
 306 cagacgtggg gcaaagggtg tccctgtcct acccagccat tccctggcct gccgcctagg 180
 308 ggctcacagg gcccaggagt cccagctca caggccaggg catcaggcca ggcgcgctcg 240
 310 gtgcacaccg cacctgtgga ggacctgggt acactcagga gaccaagagc actggcgggt 300
 312 caggatggtt ggcgttcagc tccacggggg tggggagaag tctgtagccg agagcccagc 360
 314 cccctcctgc c 371

317 <210> SEQ ID NO: 10

318 <211> LENGTH: 419

319 <212> TYPE: DNA

320 <213> ORGANISM: Homo sapiens

322 <400> SEQUENCE: 10

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 325 gcttaggacg ggcgggtgca atcctcgaag gggagtctca ggcaccatgg gggacaccat 120
 327 ccacatgcag gcggtagtgt gggcctcgcc agcgcctctc tgggggtgcc ggggtccctg 180
 329 ttgcccctca gtgccctgtg gcgcaagggc tgcaggggcc ggctgttacc gctgaggctc 240
 331 tggaagatct gagatggagg attctggctc aggagtctca gggagtgcac ctgaagggag 300
 333 gtgatattga gggcccggtc aatgaggatc cagggtgacg tctcggagca gggcgggggtg 360
 335 ctgagagagc cctgataggt gatgaaaccg aagattcagg gaacaggagc tccaggctc 419

338 <210> SEQ ID NO: 11

339 <211> LENGTH: 270

340 <212> TYPE: DNA

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348 tttacaaata accagggggc aggtgtgccc tgatcgggaa tcgtgaggga actgagtacc      180
350 agggggccct tggtcccaa cagccccagg ccttggggcg gacttggcac aggaccaag      240
352 agggaactgg ggcattgggg ggcgggcaga                                270
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356 <211> LENGTH: 255
357 <212> TYPE: DNA
358 <213> ORGANISM: Homo sapiens
360 <400> SEQUENCE: 12
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363 gtgttcttaa aacataaaat gctcttccga ttctcttgtt ccaggacaga aggatcttcc      120
365 aggtagcacg ccaacagAAC aagagactcc gatgacgcca gcttcaatga tgggtgccatc      180
367 cagagaggga gaggtcatg gcacattcaa ccgcggcttc cagaggtttt gaaaaaggag      240
369 cctttggggg ccag                                           255
372 <210> SEQ ID NO: 13
373 <211> LENGTH: 358
374 <212> TYPE: DNA
375 <213> ORGANISM: Homo sapiens
377 <400> SEQUENCE: 13
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380 attatatgaa tactacaagc atccaacaag aaataacctt cataaattag cataatttat      120
382 agcaggaaac ccaataaaac taaacttggc tgccataaat aatttgtcta aagggggata      180
384 tgctctttgt aagtatcatg ctgataaaac cataaaaatt ctttttagagg aatgaggatt      240
386 aaaaTGAAAT ttctttatga caccgaaaaa aataataatt tgtctaaaag tgtaaaattt      300
388 taaaagcaaa cattatacac ataaccagca caattatttc catcttaaaa cattgggt      358
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392 <211> LENGTH: 266
393 <212> TYPE: DNA
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396 <400> SEQUENCE: 14
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399 ggcattgtga cattttccta gaaggacatg aatagtgatg tggaggtagc gtggaggta      120
401 ggcatttaca gggtcattcg aggaggaaca gattcaagct ttccgacgat cagtgttttg      180
403 taaatagcag catcatcaga tctaagaca cattggacct ggcagggcct tttctttggg      240
405 tggcattaat tactccagat tcagac                                266
408 <210> SEQ ID NO: 15
409 <211> LENGTH: 287
410 <212> TYPE: DNA
411 <213> ORGANISM: Homo sapiens
413 <400> SEQUENCE: 15
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416 ataacagtaa gcaatcata caaatattga gaaaaaatgt tcctatgaat acatacatgt      120
418 atattcttaa gagtagcgat caggagttaa acaacaaatg taaagtgggt ttctctaaag      180
420 aatgctttct gacaggcttt tgggttgga atggacaggt aaatcactgt cacataacag      240
422 gtaagctaag aataacttct gttaccaag tcatttgaac cctgtgg      287
425 <210> SEQ ID NO: 16

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1. The sequence data is derived from the Sequence Listing.

2. The sequence data is provided in the <220> to <223> fields of each sequence using n or Xaa.

PSI

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L:11 M:270 C: Current Application Number differs, Replaced Current Application No
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:46 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:54 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:161 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:171 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:175 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:261 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:281 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:293 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:439 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:445 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:461 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:473 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:542 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:548 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:574 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22
L:576 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22
L:608 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:634 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
L:638 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
L:698 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:704 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:732 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:734 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:1212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51
L:1214 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51
L:1216 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51
L:1218 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51
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L:1244 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52
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L:1333 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56
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L:1379 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57
L:1434 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59
L:1507 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63
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L:1533 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64
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L:1555 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65
L:1559 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65
L:1561 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65
L:1565 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65

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L:1593 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66
L:1634 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68
L:1660 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69
L:1678 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70
L:1693 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!